

LOS ALAMOS NATIONAL LABORATORY

## DOSIMETRY INFORMATION

prepared for the:

Radiation Protection Program Manager

*March 16, 2004*

compiled by:

HSR-12, Radiation Protection Services, ALARA Metrics

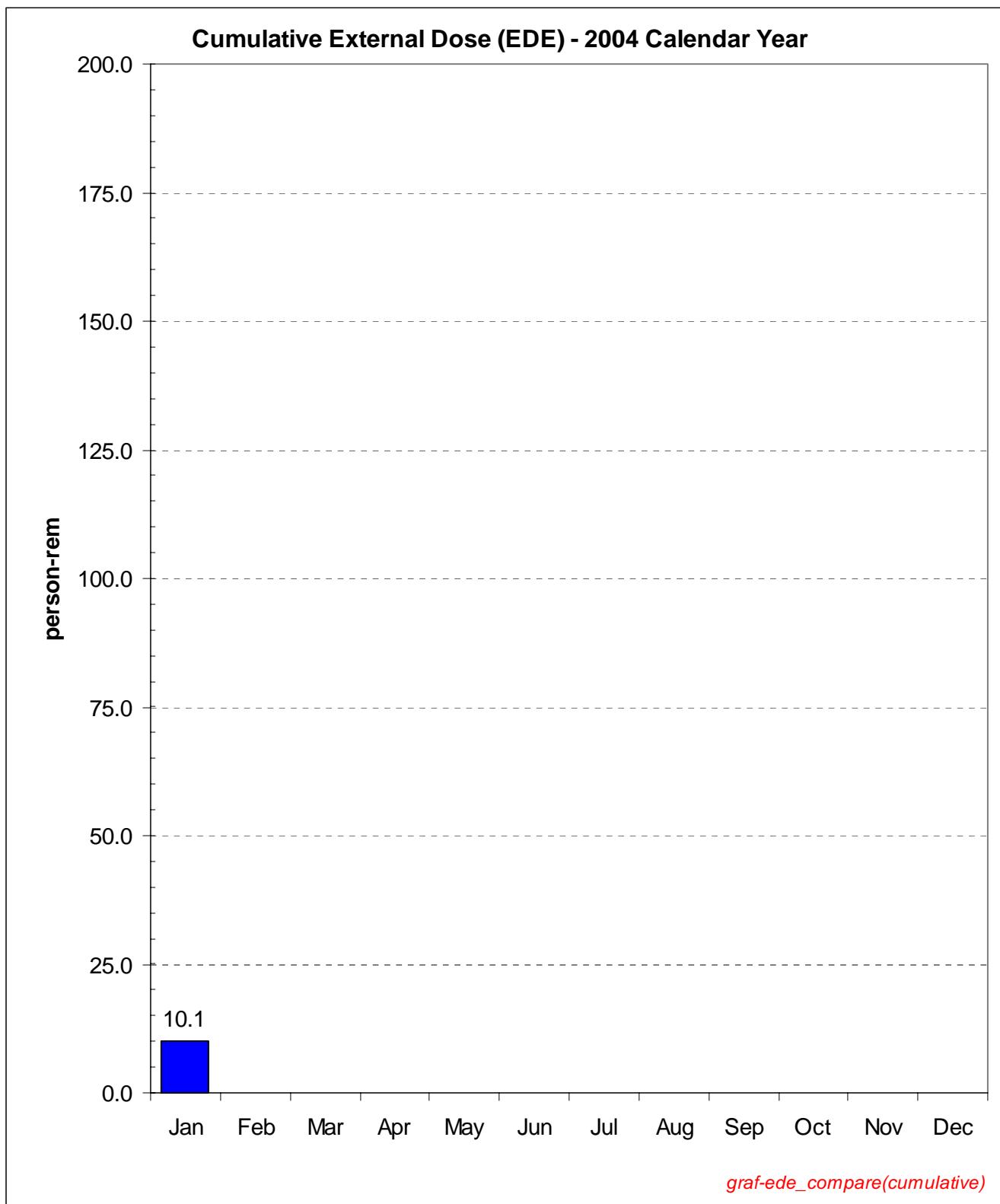
website: <http://drambuie.lanl.gov/~alara/dose.html>

email: bbates@lanl.gov

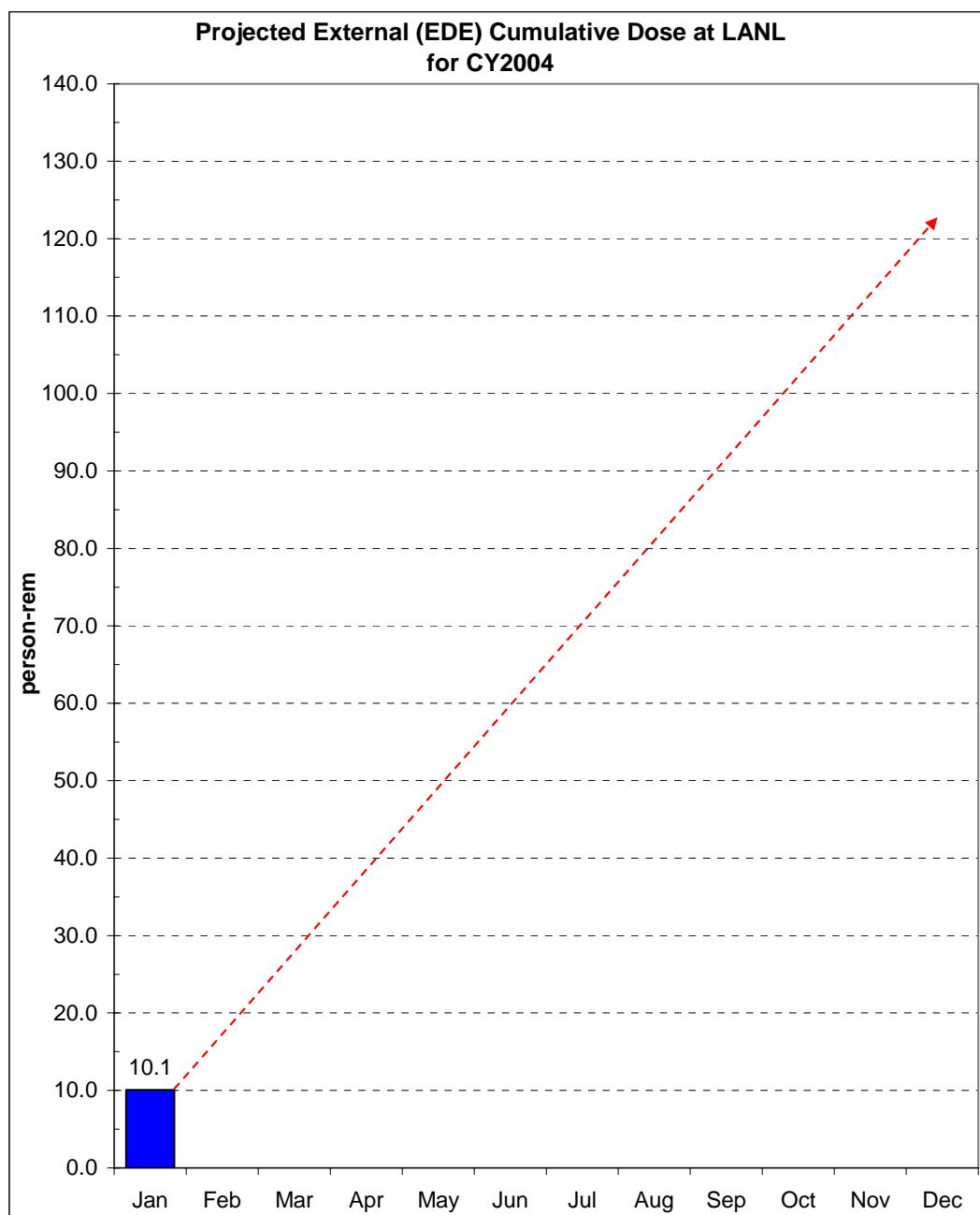
phone: 5-7921

reference file name: *graf-rppm\_report.doc*

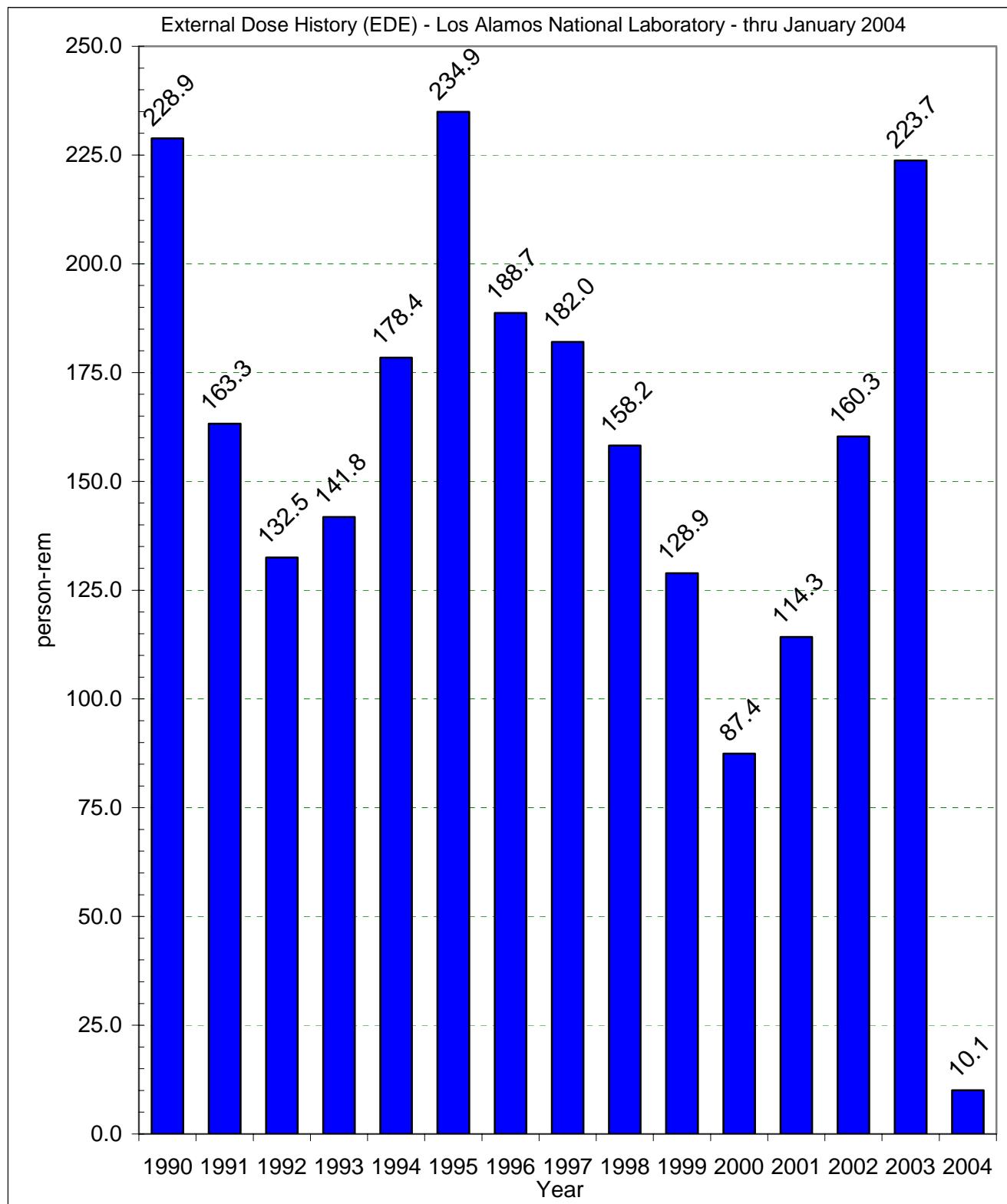
Cumulative External Dose Data for the Current Calendar Year



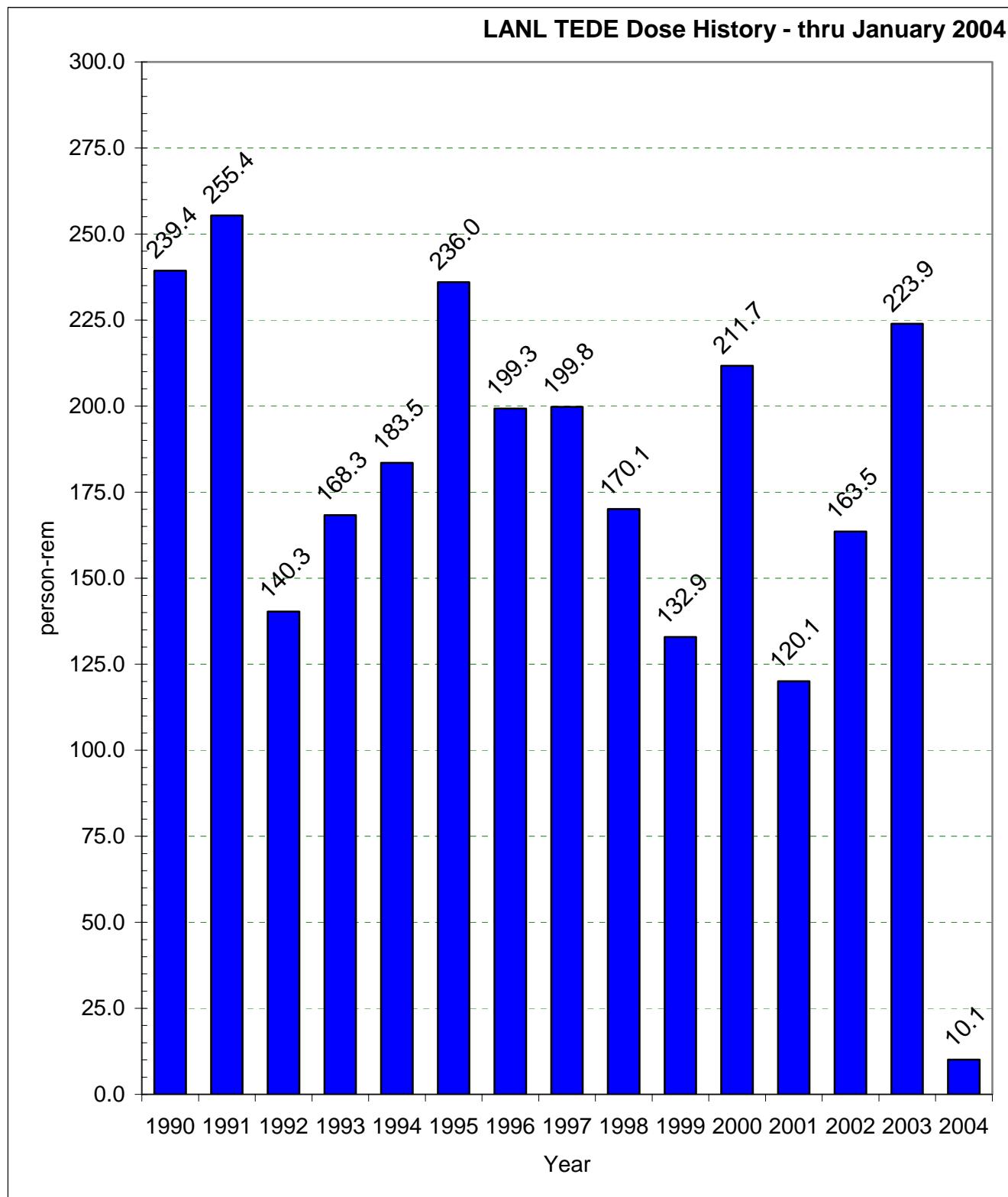
## Projected Cumulative External Dose for the Current Calendar Year



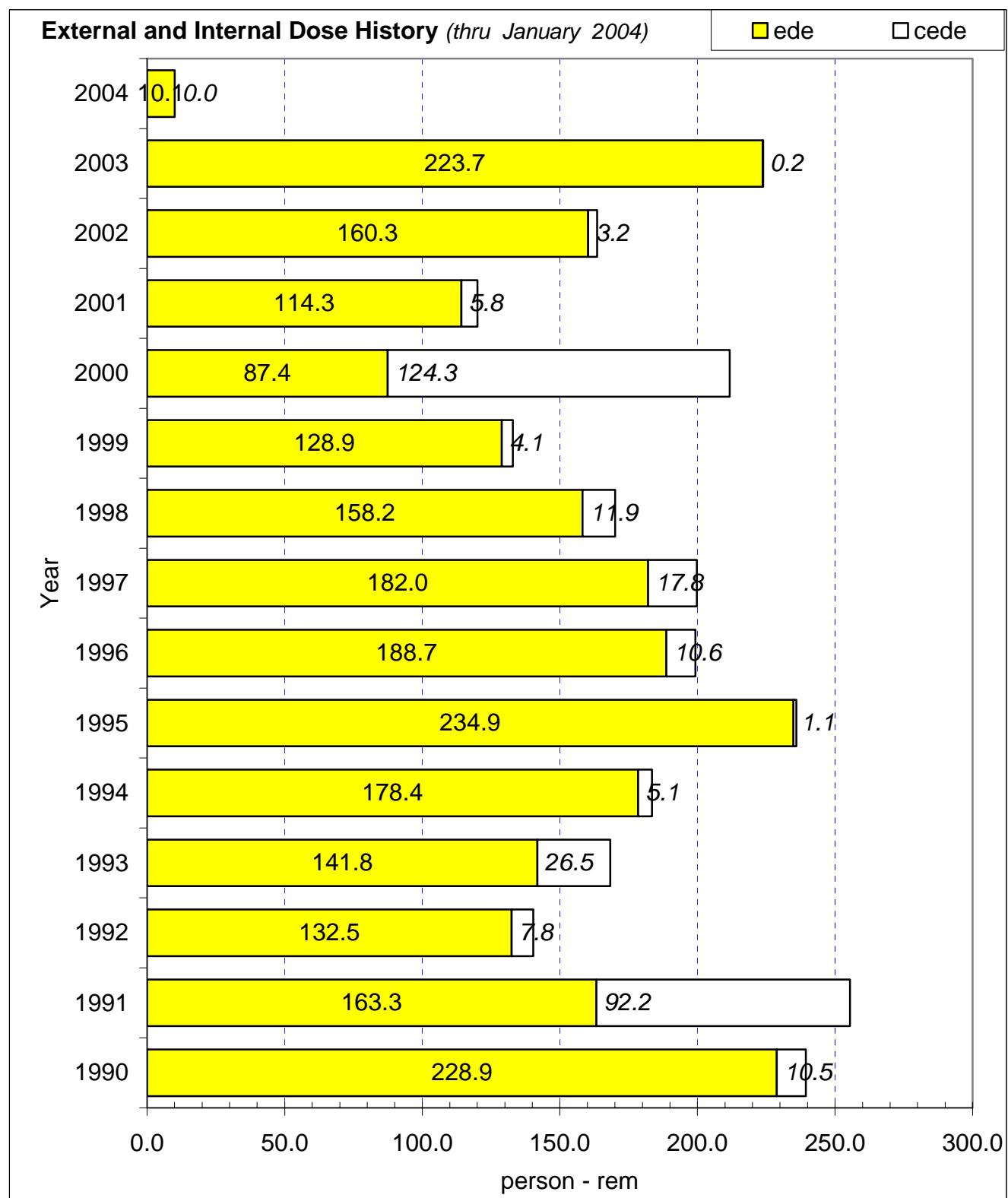
## Dose History - External



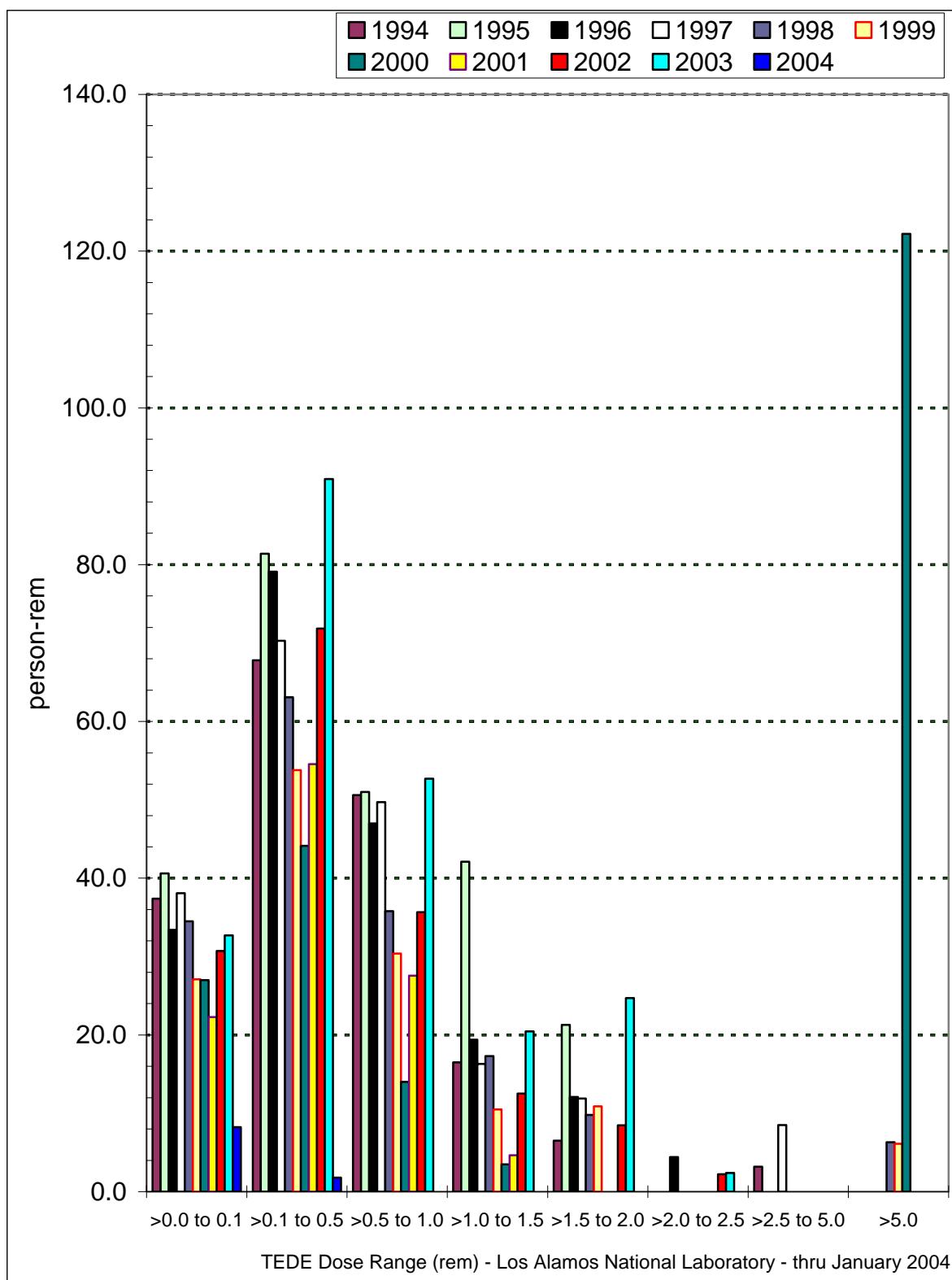
## Dose History - TEDE



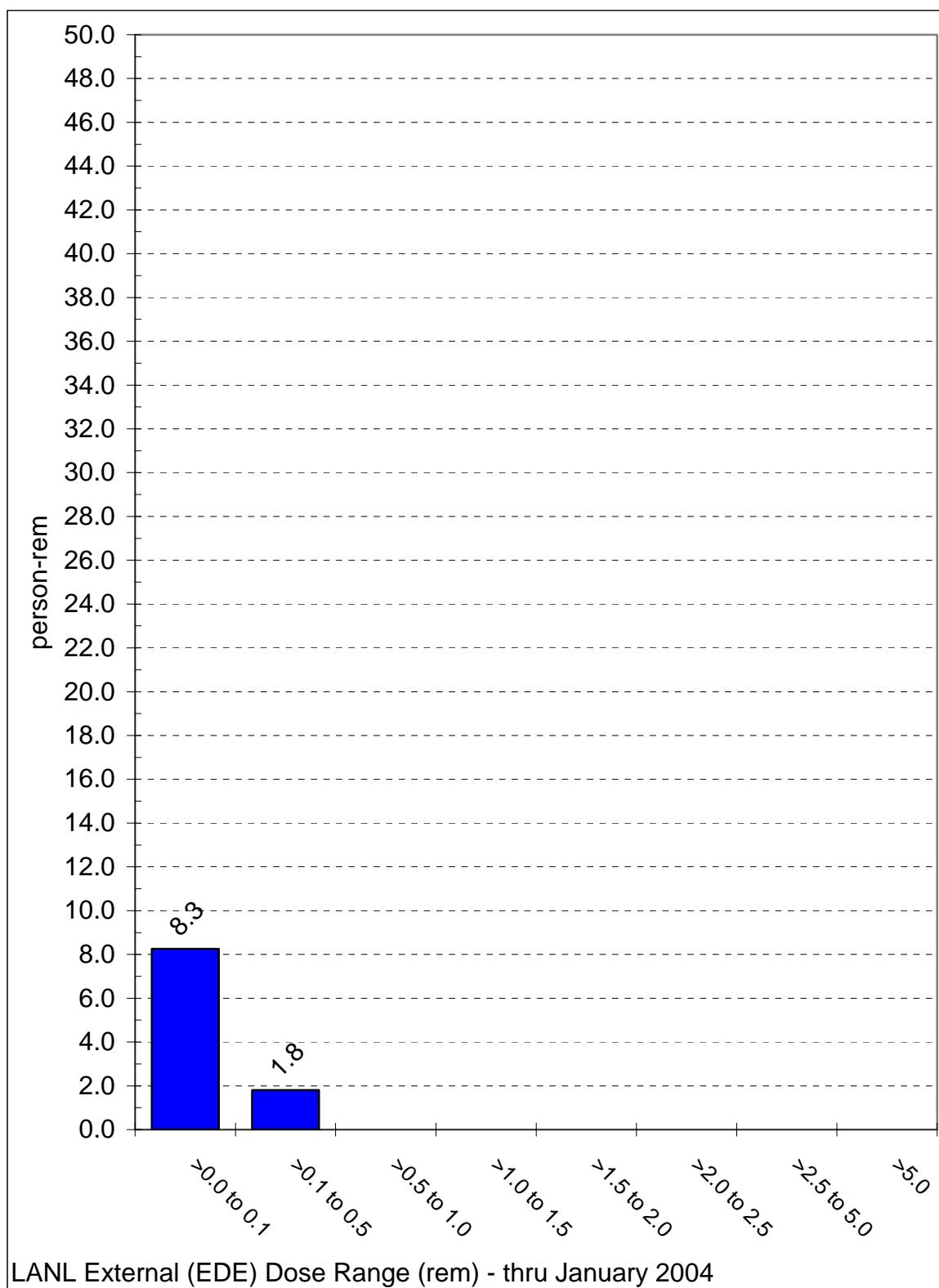
## Dose History - External (EDE) vs. Internal (CEDE)



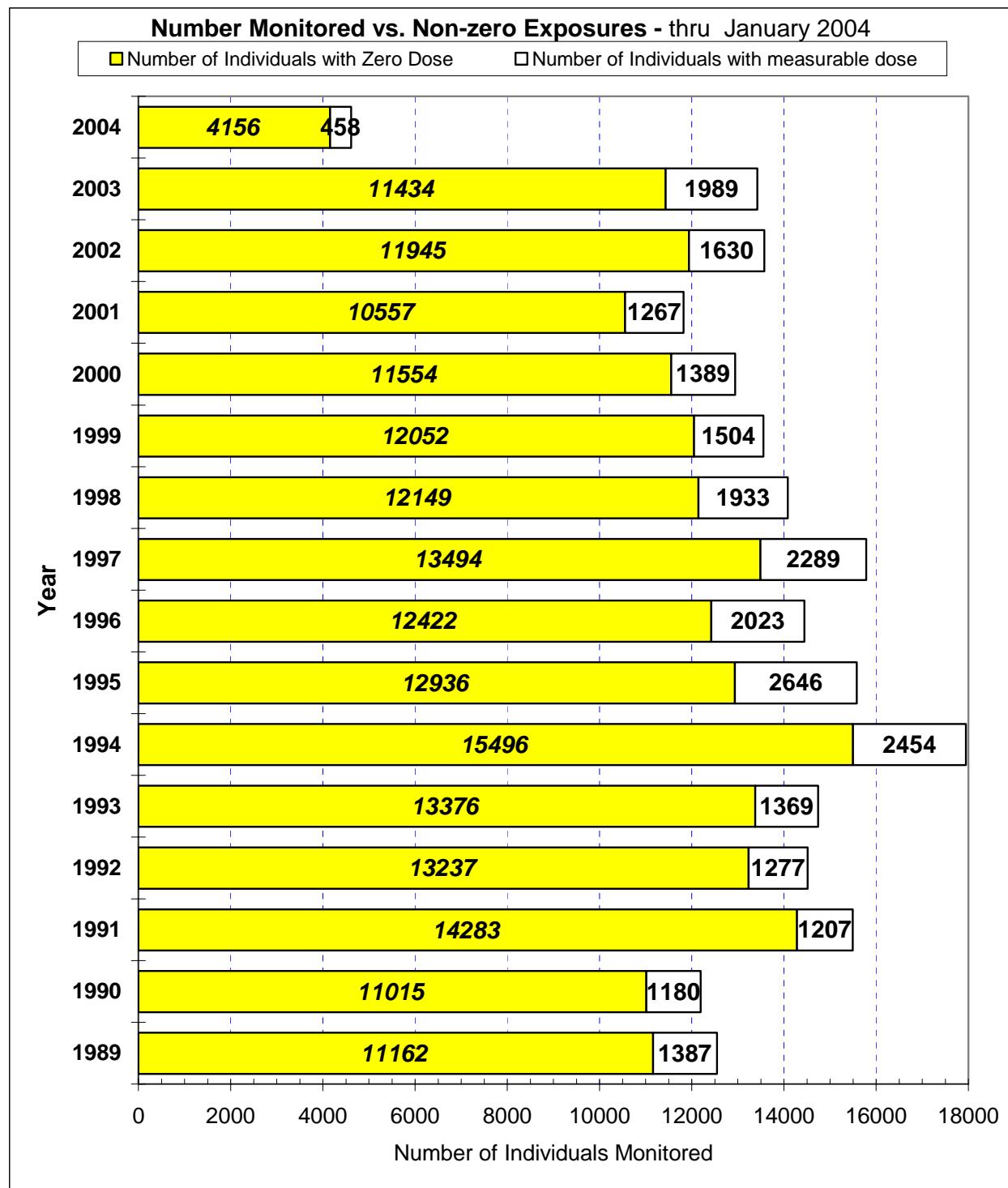
## Dose History - TEDE Doses by Dose Range



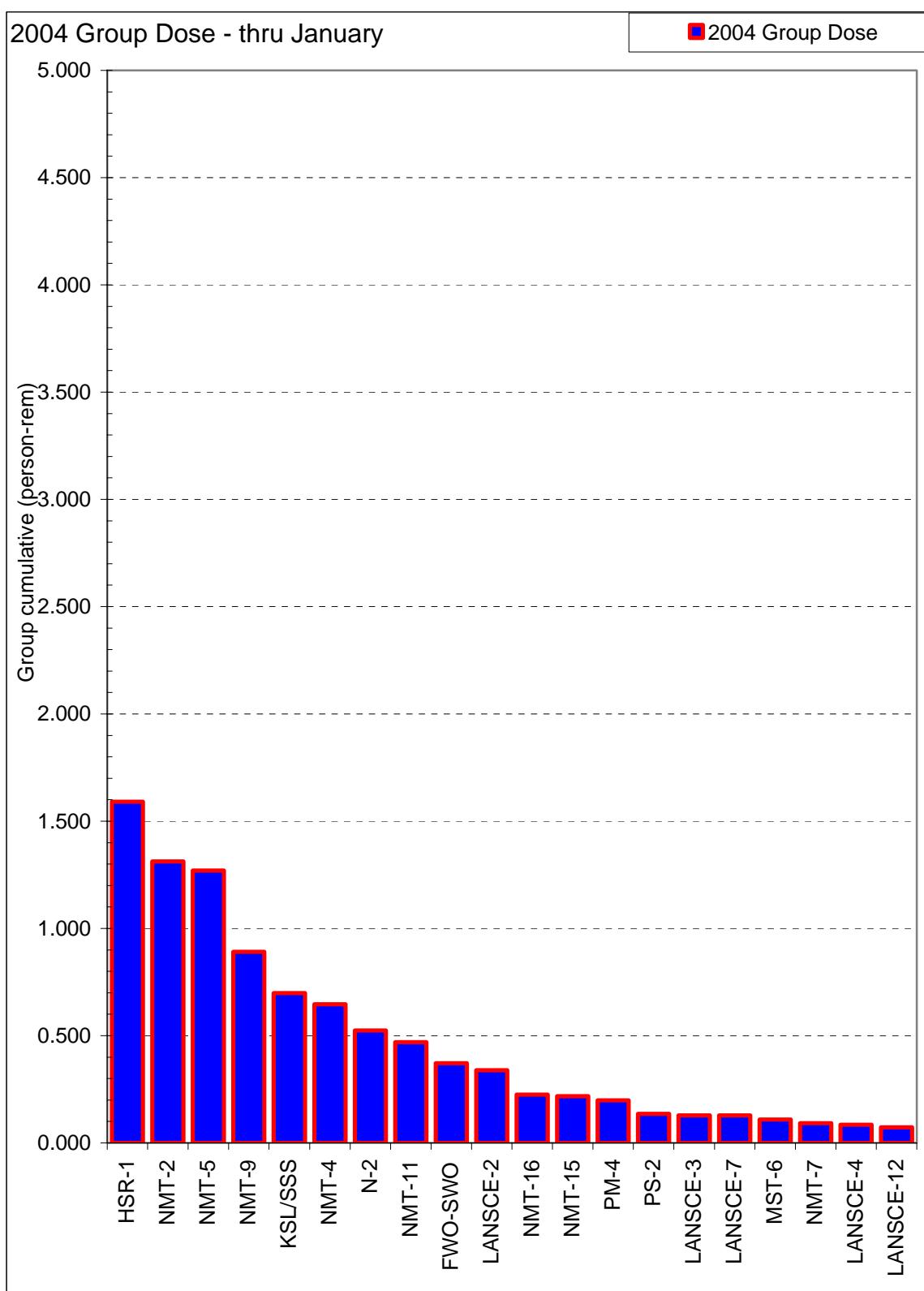
## External Dose (EDE) Ranges for the Current Calendar Year



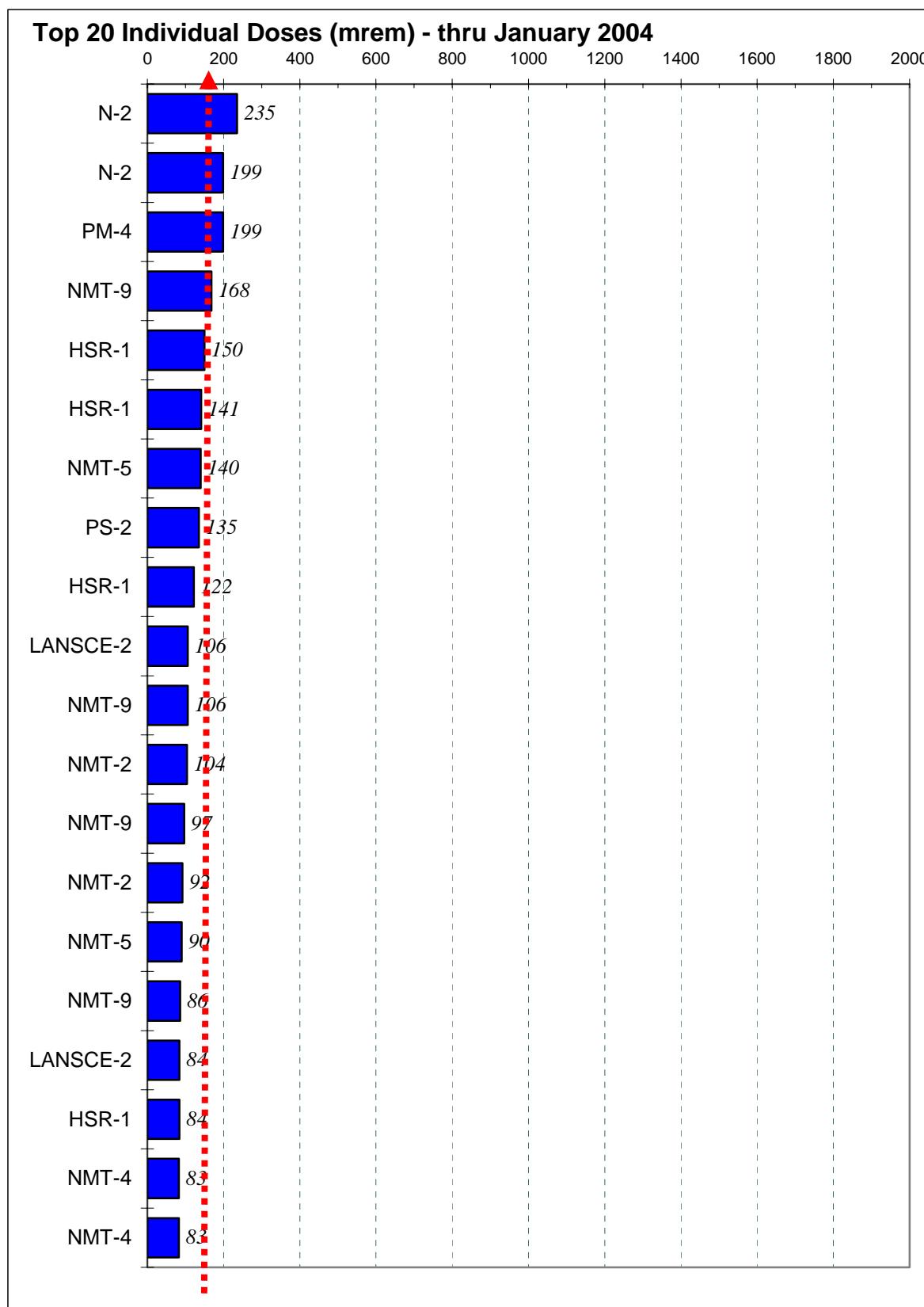
## External Dosimetry Badge (TLD) System: number monitored vs. non-zero exposures



## Top 20 Groups in the Current Calendar Year



**Top 20 Individuals in the Current Calendar Year**  
(at the current rate, all individuals past the line [arrow] have the potential to exceed 2.0rem [EDE] by the end of the year)



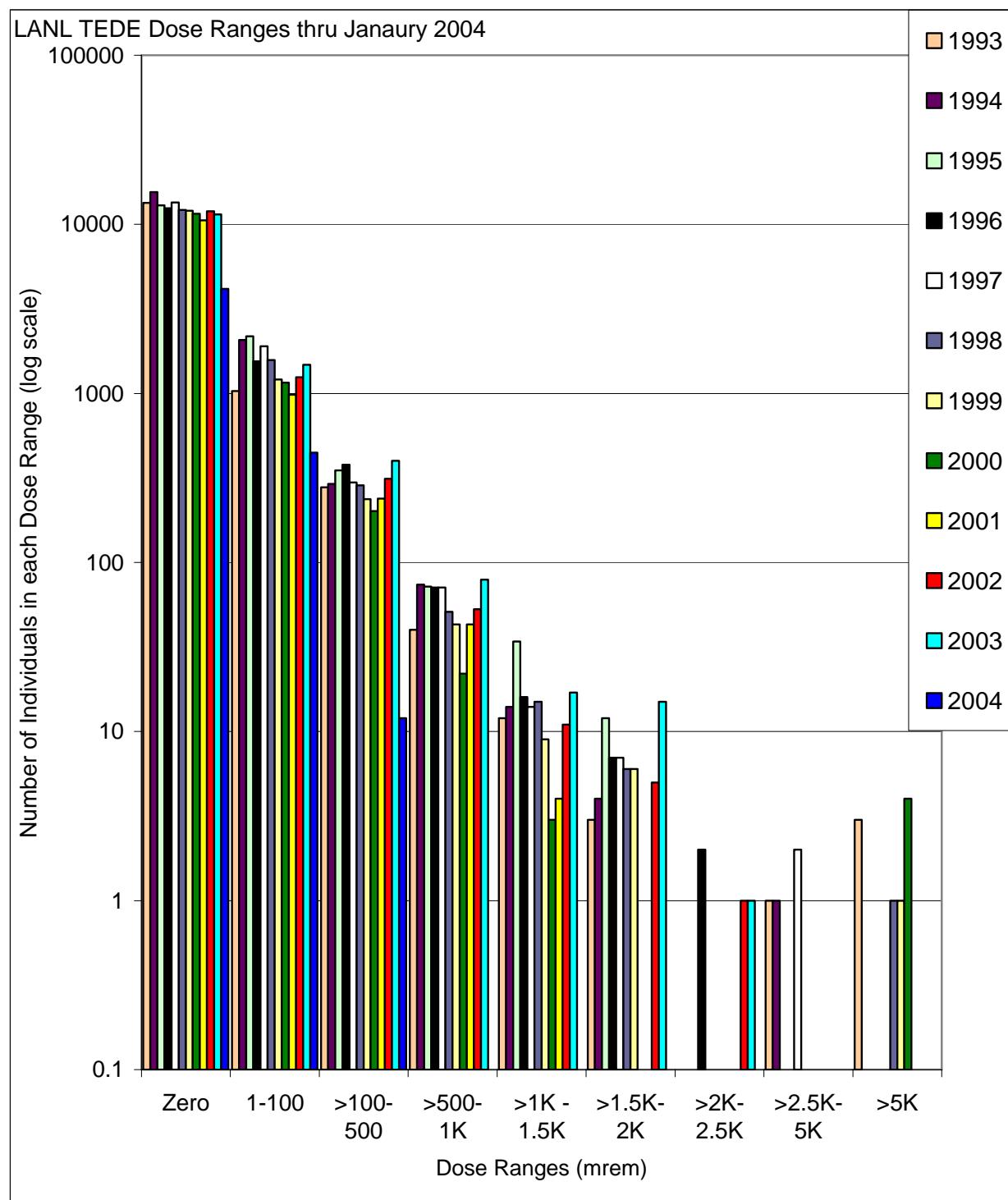
## ALARA Dosimetry Goals Tracking

<b>Los Alamos National Laboratory</b> <b>ALARA Goals Tracking for CY2003</b> For Those Groups at LANL Required to set Annual Dose Goals <b>Data through December</b>				
<b>12</b> <i>alaragoals2003tracking.xls</i>				
	<b>CY2003 DATA (person-rem)</b>			
<b>Organization</b>	<b>2003 Goal</b>	<b>Prorated Goal</b>	<b>Person-rem YTD</b>	<b>Year-to-Date Goal Status</b>
C-AAC	2.554	2.554	2.164	-15%
ESA-WMM	2.100	2.100	1.261	-40%
FWO-CGRP/IP**	34.239	34.239	32.374	-5%
HSR-1	16.002	16.002	17.777	11%
HSR-4	0.900	0.900	0.268	-70%
KSL / SSS *	11.032	11.032	19.051	73%
LANSCE-2	3.250	3.250	2.784	-14%
LANSCE-3	2.350	2.350	1.852	-21%
LANSCE-7	4.200	4.200	3.641	-13%
NIS-6	2.500	2.500	4.881	95%
NMT-2	23.686	23.686	20.510	-13%
NMT-4	8.000	8.000	10.475	31%
NMT-5	16.250	16.250	13.672	-16%
NMT-9	44.400	44.400	23.027	-48%
NMT-11	8.660	8.660	11.743	36%
NMT-15	9.230	9.230	6.652	-28%
NMT-16	8.910	8.910	9.183	3%

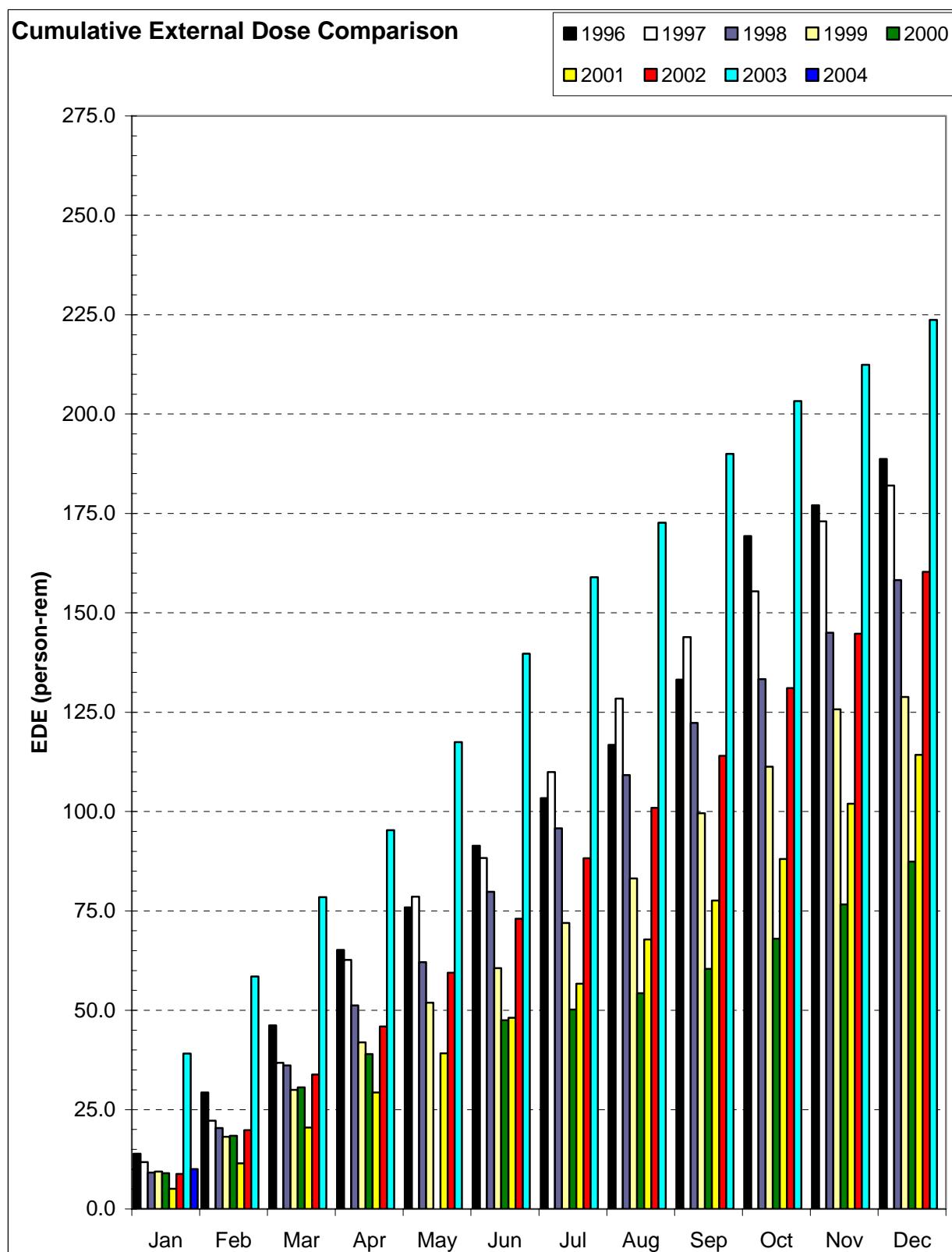
data for ytd exposure obtained from Web-site link (<http://eshdb.lanl.gov/cgi-bin/esh12/esh12menu.cgi>).

* dose of 1.818rem under investigation for medical exposure		** OWR D&D
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### External Dose Ranges Compared to Previous Years



## Comparison of Calendar Year Doses (EDE)



## Radiological Occurrences (ORPS) and Radiological Incidents (RIR)

